

PCT

## RAW SEQUENCE LISTING

DATE: 07/05/2001

PATENT APPLICATION: US/09/719,053A

TIME: 10:50:10

Input Set : A:\13045-2us-1.txt

Output Set: N:\CRF3\07052001\I719053A.raw

4 <110> APPLICANT: Robert Sullivan et al.  
6 <120> TITLE OF INVENTION: ACROSOMAL SPERM PROTEIN AND USES THEREOF  
9 <130> FILE REFERENCE: 13045-2US-1 FC/ntb  
11 <140> CURRENT APPLICATION NUMBER: 09/719,053A  
C--> 12 <141> CURRENT FILING DATE: 2000-12-07  
14 <150> PRIOR APPLICATION NUMBER: US09/090,567  
15 <151> PRIOR FILING DATE: 1998-06-08  
17 <150> PRIOR APPLICATION NUMBER: PCT/CA99/00437  
18 <151> PRIOR FILING DATE: 1998-05-13  
20 <160> NUMBER OF SEQ ID NOS: 7  
22 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
24 <210> SEQ ID NO: 1  
25 <211> LENGTH: 1081  
26 <212> TYPE: DNA  
27 <213> ORGANISM: Artificial Sequence  
29 <220> FEATURE:  
30 <221> NAME/KEY: CDS  
31 <222> LOCATION: (124)...(856)  
32 <223> OTHER INFORMATION: p26h cDNA  
34 <400> SEQUENCE: 1

35	gtccctggag gttggctgta ggattcaggt ggcttgctca ggctgggac aaggacacag	60
36	tgagcagatc aaccttaacc tcagccctc ccctcgccac aggaggacac tgggtgcagc	120
37	agc atg aag ctg aat ttc act ggt ctc agg gct ctg gtg acc ggg gca	168
38	Met Lys Leu Asn Phe Thr Gly Leu Arg Ala Leu Val Thr Gly Ala	
39	1 5 10 15	
41	ggg aga ggg att ggg cga ggc act gcg aaa gcc ctg cat gcc tca gga	216
42	Gly Arg Gly Ile Gly Arg Gly Thr Ala Lys Ala Leu His Ala Ser Gly	
43	20 25 30	
45	gcc aaa gtg gtg gcc gtg tca ctc atc aac gaa gac ctg gtc agc ctg	264
46	Ala Lys Val Val Ala Val Ser Leu Ile Asn Glu Asp Leu Val Ser Leu	
47	35 40 45	
49	gcc aaa gag tgt ccg ggc ata gag cct gtg tgt gtg gac ctg ggt gac	312
50	Ala Lys Glu Cys Pro Gly Ile Glu Pro Val Cys Val Asp Leu Gly Asp	
51	50 55 60	
53	tgg gag gcc aca gag aag gca ctg ggc cgt att ggc ccc gtg gac ctg	360
54	Trp Glu Ala Thr Glu Lys Ala Leu Gly Arg Ile Gly Pro Val Asp Leu	
55	65 70 75	
57	ctg gtg aac aat gcg gcg gtg gcg cta gtg cag cct ttc ata cag tct	408
58	Leu Val Asn Asn Ala Ala Val Ala Leu Val Gln Pro Phe Ile Gln Ser	
59	80 85 90 95	
61	acc aag gag gtc ttt gac agg tcc ttc aat gtg aat gtg cgc tct gtg	456
62	Thr Lys Glu Val Phe Asp Arg Ser Phe Asn Val Asn Val Arg Ser Val	
63	100 105 110	
65	ctg caa gtg tcc cag atg gta gcc aag ggc atg att aac cgt gga gtg	504
66	Leu Gln Val Ser Gln Met Val Ala Lys Gly Met Ile Asn Arg Gly Val	
67	115 120 125	
69	gca gga tcc att gtc aac atc tcc agc atg gtg gcc tat gtc acc ttc	552

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70 Ala Gly Ser Ile Val Asn Ile Ser Ser Met Val Ala Tyr Val Thr Phe
71      130      135      140
73 cct ggt ctg gcc acg tac agc tcc acc aag ggt gct ata acc atg ctg      600
74 Pro Gly Leu Ala Thr Tyr Ser Ser Thr Lys Gly Ala Ile Thr Met Leu
75      145      150      155
77 acc aaa gcc atg gcc atg gag ctg gga cca tac aag atc cgg gtg aac      648
78 Thr Lys Ala Met Ala Met Glu Leu Gly Pro Tyr Lys Ile Arg Val Asn
79 160      165      170      175
81 tct gta aac cct acc gtg gtg ctg act gac atg ggc aag aaa gtc tct      696
82 Ser Val Asn Pro Thr Val Val Leu Thr Asp Met Gly Lys Lys Val Ser
83      180      185      190
85 gca gac ccg gaa ttt gcc aag aag ctc aag gag cgc cac cca ctg agg      744
86 Ala Asp Pro Glu Phe Ala Lys Lys Leu Lys Glu Arg His Pro Leu Arg
87      195      200      205
89 aag ttc gca gag gtg gag gac gtg gtc aac agc atc ctc ttc ctg ctc      792
90 Lys Phe Ala Glu Val Glu Asp Val Val Asn Ser Ile Leu Phe Leu Leu
91      210      215      220
93 agc gac agc agc gcc tct acc agc ggc tct ggc atc ctg gtg gac gct      840
94 Ser Asp Ser Ser Ala Ser Thr Ser Gly Ser Gly Ile Leu Val Asp Ala
95      225      230      235
97 ggt tac ctg gcc tcc t agacggccca ggtgcagggg actcctggag acttcctgg      896
98 Gly Tyr Leu Ala Ser
99 240
101 cctcaccctt acatcaagac cccgccttca acccaaccca ataattttgt tcgaatcctg      956
102 tagagcccca cccacacac atccatcccc aacttttagac tccgggatcc cgccattcca      1016
103 taccagctat gctgagataa ttgattataa taagtatccc aaaccacaaa aaaaaaaaaa      1076
104 aaaaaa      1081
106 <210> SEQ ID NO: 2
107 <211> LENGTH: 244
108 <212> TYPE: PRT
109 <213> ORGANISM: Artificial Sequence
111 <220> FEATURE:
112 <223> OTHER INFORMATION: p26h protein
114 <400> SEQUENCE: 2
115 Met Lys Leu Asn Phe Thr Gly Leu Arg Ala Leu Val Thr Gly Ala Gly
116 1      5      10      15
117 Arg Gly Ile Gly Arg Gly Thr Ala Lys Ala Leu His Ala Ser Gly Ala
118      20      25      30
119 Lys Val Val Ala Val Ser Leu Ile Asn Glu Asp Leu Val Ser Leu Ala
120      35      40      45
121 Lys Glu Cys Pro Gly Ile Glu Pro Val Cys Val Asp Leu Gly Asp Trp
122      50      55      60
123 Glu Ala Thr Glu Lys Ala Leu Gly Arg Ile Gly Pro Val Asp Leu Leu
124      65      70      75      80
125 Val Asn Asn Ala Ala Val Ala Leu Val Gln Pro Phe Ile Gln Ser Thr
126      85      90      95
127 Lys Glu Val Phe Asp Arg Ser Phe Asn Val Asn Val Arg Ser Val Leu
128      100      105      110
129 Gln Val Ser Gln Met Val Ala Lys Gly Met Ile Asn Arg Gly Val Ala

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130          115          120          125
131 Gly Ser Ile Val Asn Ile Ser Ser Met Val Ala Tyr Val Thr Phe Pro
132          130          135          140
133 Gly Leu Ala Thr Tyr Ser Ser Thr Lys Gly Ala Ile Thr Met Leu Thr
134 145          150          155          160
135 Lys Ala Met Ala Met Glu Leu Gly Pro Tyr Lys Ile Arg Val Asn Ser
136          165          170          175
137 Val Asn Pro Thr Val Val Leu Thr Asp Met Gly Lys Lys Val Ser Ala
138          180          185          190
139 Asp Pro Glu Phe Ala Lys Lys Leu Lys Glu Arg His Pro Leu Arg Lys
140          195          200          205
141 Phe Ala Glu Val Glu Asp Val Val Asn Ser Ile Leu Phe Leu Leu Ser
142          210          215          220
143 Asp Ser Ser Ala Ser Thr Ser Gly Ser Gly Ile Leu Val Asp Ala Gly
144 225          230          235          240
145 Tyr Leu Ala Ser
148 <210> SEQ ID NO: 3
149 <211> LENGTH: 912
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: P34 cDNA
156 <400> SEQUENCE: 3
157 gacaaaagct ggagctccac cgcggtggcg gccgctctag aactagtgga tccccggggc 60
158 tgcaggaatt cggcacgagc cgacatggag ctgttcctcg cgggccgccc ggtgctggtc 120
159 accggggcag gcaaagggtat agggcgcggc acggtccagg cgctgcacgc gacgggcgcg 180
160 cgggtggtgg ctgtgagccg gactcaggcg gatcttgaca gccttgctcg cgagtggccc 240
161 gggatagaac ccgtgtgcgt ggacctgggt gactgggagg ccaccgagcg ggcgctgggc 300
162 agcgtgggcc ccgtggacct gctggtgaac aacgcgcgtg tcgccctgct gcagcccttc 360
163 ctggaggtea ccaaggagge ctttgacaga tcctttgagg tgaacctgcg tgcggtcatc 420
164 caggtgtcgc agattgtggc caggggctta atagcccggg gagtaccagg ggccatcgtg 480
165 aatgtctcca gccagtgtc ccagcgggca gtaactaacc atagcgtcta ctgtccacc 540
166 aagggtgccc tggacatgct gaccaagggt atggccctag agctcgggcc ccacaagatc 600
167 cgagtgaatg cagtaaacc cccagtgggt atgacgtcca tgggccaggc cacctggagt 660
168 gacccccaca agccaagac tatgtgaac cgaatccac ttggcaagtt tctgaggta 720
169 gagcacgtgg tgaacgccat cctctttctg ctgagtgaac gaagtggcat gaccacgggt 780
170 tccactttgc cgggtgaaaag gggcttctgg gcctgctgag ctccctccac acacctcaag 840
171 ccccatgccg tgtctatcct accccaatac cctccaataa acctgattct gctcccaaaa 900
172 aaaaaaaaaa aa 912
174 <210> SEQ ID NO: 4
175 <211> LENGTH: 11
176 <212> TYPE: PRT
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: P34 antigenic fragment
182 <400> SEQUENCE: 4
183 Met Glu Leu Phe Leu Ala Gly Arg Arg Val Leu
184 1 5 10
186 <210> SEQ ID NO: 5

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187 <211> LENGTH: 11
188 <212> TYPE: PRT
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: P34 antigenic fragment
194 <400> SEQUENCE: 5
195   Cys His Lys Ala Lys Thr Met Leu Asn Arg Ile
196     1           5           10
198 <210> SEQ ID NO: 6
199 <211> LENGTH: 21
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: cDNA for use as primer
206 <400> SEQUENCE: 6
207   gtgacagggg cagggaaagg g                21
209 <210> SEQ ID NO: 7
210 <211> LENGTH: 21
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: cDNA for use as primer
217 <400> SEQUENCE: 7
218   gcaactgagc agactaggag g                21

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/719,053A

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TIME: 10:50:11

Input Set : A:\13045-2us-1.txt

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date